









# SONY PROFESSIONAL MONITORS

## SONY REFERENCE MONITORS COMPARISON CHART 2014

|  |   |  |   |   |
|--|---|--|---|---|
| SONY REFERENCE MONITORS<br>COMPARISON CHART 2014           |  |  |  |  |
|  | BVM-E250A   | BVM-E170A  | BVM-F250A   | BVM-F170A   |
| Panel  | Sony OLED Super Top Emission  |  |   |   |
| OLED type  | 1920 x 1080 (Full HD)   |  |   |   |
| measured (Viewable area, measured diagonally)              | 24.5-inch   | 16.5-inch  | 24.5-inch   | 16.5-inch   |
| Resolution (pixels)  | 16:9  |  |   |   |
| Aspect ratio   | 10-bit RGB  |  |   |   |
| Panel drive / Colours                                      |   |  |   |   |
| Video Format   |   |  |   |   |
| 3G-SDI Level A&B   | ✓   |  |   |   |
| Dual Link HD SDI   | ✓ (2xBKM-243HS or 1x BKM-250TG)   |  |   |   |
| SD: 480/60i, 576/50i                                       | ✓   |  |   |   |
| HD:720/24p, 25p, 30p, 50p, 60p                             | ✓   |  |   |   |
| Full HD: 1080/24psf, 25psf, 30psf, 24p, 25p, 30p, 50i, 60i | ✓   |  |   |   |
| Full HD: 1080/50p, 1080/60p                                | ✓ (Dual Link HD or 3G SDI/HDMI)   |  |   |   |
| 2K (2048 x 1080) format                                    | ✓   |  | -   |   |
| Input interface  |   |  |   |   |
| 3G/HD/SD-SDI (BNC)   | ✓ (x2) Standard (x2) (with BKM-250TG)   |  |   |   |
| HD/SD-SDI (BNC)  | ✓ (with BKM-243HS) (x2)   |  |   |   |
| SD-SDI (BNC)   | ✓ (with BKM-220D) (x2)  |  |   |   |
| Composite (BNC)  | ✓ (with BKM-227W) (x1)  |  |   |   |
| Y/C (Mini-DIN 4-pin)                                       | ✓ (with BKM-227W) (x1)  |  |   |   |
| RGB / Component (BNC)*1                                    | ✓ (with BKM-229X) (x1)  |  |   |   |
| HDMI / DVI-D*2   | ✓ HDMI (x1)   |  |   |   |
| Display Port   | ✓ (x1) (HDCP)   |  |   |   |
| Audio  | -   |  |   |   |
| External sync (BNC)  | ✓ (with BKM-229X)   |  |   |   |
| Option port  | (x4)  |  |   |   |
| Audio speakers   | -   |  |   |   |
| Headphones   | -   |  |   |   |
| output interface   |   |  |   |   |
| 3G/HD/SD-SDI (BNC)   | (x1) Standard*3 (x2) (with BKM-250TG)*4   |  |   |   |
| HD/SD-SDI (BNC)*3  | ✓ (with BKM-243HS) (x1)   |  |   |   |
| SD-SDI (BNC)*3   | ✓ (with BKM-220D) (x1)  |  |   |   |
| Composite (BNC)  | ✓ (with BKM-227W) (x1)  |  |   |   |
| Y/C (Mini-DIN 4-pin)                                       | ✓ (with BKM-227W) (x1)  |  |   |   |
| RGB / Component (BNC)                                      | ✓ (with BKM-229X) (x1)  |  |   |   |
| Audio monitor out  | -   |  |   |   |
| Speaker (built-in)   | -   |  |   |   |
| Headphone output   | -   |  |   |   |
| Remote control   |   |  |   |   |
| Control unit*5   | BKM-16R   |  |   |   |
| Controller attachment kit                                  | BKM-37H (with tilt)<br>BKM-38H  | BKM-39H  | BKM-37H (with tilt)<br>BKM-38H  | BKM-39H   |
| Parallel remote  | Modular connector 8-pin (x1)  |  |   |   |
| Serial remote Ethernet                                     | LAN   |  |   |   |
| Features   |   |  |   |   |
| Channel configuration                                      | Up to 30 channels   |  |   |   |
| Auto white balance calibration*6                           | ✓   |  |   |   |
| I/P mode selection   | Automatic (Ultimate performance)  |  |   |   |
| Power saving mode  | -   |  |   |   |
| Screen saver   | ✓   |  |   |   |
| Markers  | Aspect, Safe area (x2), Centre marker (x5) Marker Preset                          |  |   |   |
| Waveform monitor   | -   |  |   |   |
| Vector scope   | -   |  |   |   |
| Camera assist focus in colour                              | -   |  |   |   |
| Audio level meter (SDI-embedded audio)                     | ✓ (with BKM-250TG)  |  |   |   |
| Time code display (SDI-embedded time code)                 | ✓   |  |   |   |
| Colour temperature   | D93, D65, D61, D55, D-Cine, User1 to 5  |  | D93, D65, User1 to 5  |   |
| Closed caption   | ✓ (With BKM-244CC)  |  |   |   |
| Colour space   | ITU-R BT.709, EBU, SMPTE-C, D-Cine, S-GAMUT, Native                               |  | ITU-R BT.709, EBU, SMPTE-C, Native  |   |
| Gamma selection  | 2.2/2.4/2.6/CRT/S-Log (Full/Standard)   |  | 2.2/2.4/CRT   |   |
| Scan mode (Normal (0%). Under Scan (3%) Over (5%).         | ✓   |  |   |   |

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|  | BVM-E250A  | BVM-E170A  | BVM-F250A  | BVM-F170A  |
| User preset                                      | Preset (1 to 5)  |  |  |  |
| IMD (In-monitor Display)                         | -  |  |  |  |
| Tally lamp                                       | Amber  |  |  |  |
| EIA 19-inch rack-mounting                        | -  | ✓ (standard)   | -  | ✓ (standard)   |
| VESA mounting                                    | 100x100mm  |  |  |  |
| Yoke mount support                               | -  |  |  |  |
| Desktop stand                                    | -  |  |  |  |
| 3D Functions*7                                   | Difference, L/R switch, Checkerboard, Horopter,  |  |  |  |
| Interlace mode                                   | ✓  |  |  |  |
| Camera focus assist mode                         | -  |  |  |  |
| HD Frame capture on Memory Stick                 | ✓  |  |  |  |
| Memory stick save/load                           | ✓  |  |  |  |
| Picture & Picture Mode                           | Side by Side, Wipe, Blending, Butterfly  |  | Side by Side   |  |
| Pixel Zoom*8                                     | ✓  |  |  |  |
| Flip function                                    | H flip (with BKM-250TG)  |  |  |  |
| SD Aspect correction in native mode              | ✓  |  |  |  |
| Aspect ratio selection                           | 4:3/16:9/2.39:1/1.896:1  |  | 4:3/16:9   |  |
| Gamut error display                              | ✓  |  | -  |  |
| User LUT/ASC CDL                                 | User LUT (x5) /ASC CDL (x5)  |  | -  |  |
| Internal test generator                          | Test patterns (x7)   |  |  |  |
| Copy function (settings, adjustment)             | ✓  |  |  |  |
| Assignable function keys                         | F-Key (x16)  |  |  |  |
| Chroma Up  | +12db  |  |  |  |
| Blue Only  | ✓  |  |  |  |
| Mono   | ✓  |  |  |  |
| H/V delay  | ✓  |  |  |  |
| Aperture   | ✓  |  |  |  |
| General  |  |  |  |  |
| DC Operation                                     | -  | 24 V - 28 V  | -  | 24 V - 28 V  |
| Power requirements                               | AC 100 V to 240 V,<br>1.6 A to 0.8 A, 50/60 Hz   | AC 100 V to 240 V,<br>1.2 A to 0.7 A, 50/60 Hz<br>DC 24 V to 28 V, 4.5 A to 3.9 A  | AC 100 V to 240 V,<br>1.6 A to 0.8 A, 50/60 Hz   | AC 100 V to 240 V,<br>1.2 A to 0.7 A, 50/60 Hz<br>DC 24 V to 28 V, 4.5 A to 3.9 A  |
| Power consumption                                | Approx. 145 W (max.)<br>Approx. 72 W<br>(average power consumption in<br>the default status) | Approx. 110 W (AC), 100 W<br>(DC) (max.)<br>Approx. 60 W (AC), 60 W (DC)<br>(average power consumption in<br>the default status) | Approx. 145 W (max.)<br>Approx. 72 W<br>(average power consumption in<br>the default status) | Approx. 110 W (AC), 100 W<br>(DC) (max.)<br>Approx. 60 W (AC), 60 W (DC)<br>(average power consumption in<br>the default status) |
| Dimensions (W x H x D) mm                        | 576.0 x 424.0 x 148.0 mm<br>(22 3/4 x 16 3/4 x 5 7/8 inches)                                 | 436.0 x 282.4 (266.4)*9 x 214.7<br>mm<br>(17 1/4 x 11 1/4 (10 1/2)*9 x 8<br>1/2 inches)  | 576.0 x 424.0 x 148.0 mm<br>(22 3/4 x 16 3/4 x 5 7/8 inches)                                 | 436.0 x 282.4 (266.4)*9 x 214.7<br>mm<br>(17 1/4 x 11 1/4 (10 1/2)*9 x 8<br>1/2 inches)  |
| Weight   | 13.0 kg (28 lb 11 oz)  | 8.6 kg (18 lb 15 oz)   | 13.0 kg (28 lb 11 oz)  | 8.6 kg (18 lb 15 oz)   |

\*1 Component level (SMPTE/EBU-N10/Betacam)

\*2 DVI signals can be input via the HDMI interface using a conversion cable.

\*3 SDI Monitor output

\*4 Loop-through, automatic termination.

\*5 BKM-16R can control up to 32 monitors BVM/PVM/LMD

\*6 This works with the combination of a PC and a commercially available calibration tools (Konica Minolta CA-210, CA-310, CS-200, DK-Technologies PM5639/06, X-Rite i1 Pro/i1 Pro2, Photo Research PR-655/PR-670, Klein K-10, and JETI specbos 1211).

\*7 An optional BKM-250TG 3G-SDI input adaptor is required.

\*8 The part of the picture is magnified up to 8 times.

\*9 Height without monitor feet